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ANT3m ATGACGGAACAGGCATCTCTTCGCCAAGGACTTCTGGCCGGAGGCATCGCCGCGCCATCTCCAAGACGGCGGTGC 80

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ANT2m CCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAGGCA 160  
ANT3m TCCGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCGCGCGAGAAAGCAGTACAAAGGCA 160

ANT1m TCATTGATTTGTGGTGAGAAATCCCTAAGGAGCAGGGCTTCTCTCTCTCTGAGGGGTAACTGGCCAACGTATCCGT 240  
ANT2m TTATAGACTGCGTGGTCCGTATCCCAAGGAGCAGGAAGTCTGTCTCTCTGCGCGGTAACTGGCCAATGTCTATAGA 240  
ANT3m TCGTGACTGCAATGTCCGATCCCAAGGAGCAGGGCGTCTGTCTCTCTGAGGGGTAACTTGGCAACGTATTCGT 240

ANT1m TACTTCCCCACCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGTCTCTTCTAGGGGGTGTGGATCGGCATTA 320  
ANT2m TACTTCCCCACCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTCTTGGGTGGTGTGGACAAGAGAAC 320  
ANT3m TACTTCCCCACTCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTCTTGGGGGTGTGGACAAGCAAC 320

ANT1m GCAGTCTGCGCTACTTTGCTGGTAACCTGGGTTCGGTGGCGCGGTGGGGCCACCTCCCTTTGCTTTGTATACCGC 400  
ANT2m CCAGTTTTGGCTTACTTTGCAGGAACTGGCATCGGTGGTGGCGAGGGGCCACATCCCTGTCTTTGTGTACCTTC 400  
ANT3m GCAGTCTGCGCTACTTTGCTGGTAACCTGGGTTCGGTGGCGCGGTGGGGCCACCTCCCTTTGCTTTGTGTACCGC 400

ANT1m TGGATTTTGCTAGGACAGGTGGGTGCTGATGTGGGAGGC---GCGCCAGCGTGAAGTTCATGGTCTGGGGGACTGT 477  
ANT2m TTGATTTTGGCTTACCGCTTAGCAGCTGATGTGGGTAAAGTGGAGGTGAAGGGAATCCGAGGCTGGGTGACTGC 480  
ANT3m TGGATTTTGCAGAACCGCTTGGCAGCGAAGTGGGAAGTCAAGCAAGAGCGGAGTTCGAGGCTGGGAGACTGC 480

*Fig. 1A*

ANT1m ATCAATCAAGATCTTCAAGTCTGATGGCTTGAAGGGCTCTACCAGGGTTTCAACGTCTCTGTCCAAAGGCATCATTTATCTA 557  
 ANT2m CTGGTTAAGATCTACAAATCTGATGGATTAAAGGGCTGTACCAAGGCTTTAACGTCTCTGTGCAGGGTATTTATCATCTA 560  
 ANT3m CTGGTTAAGATCAACAAGTCCAGGGCATCCGGGCCTGTACCAGGGCTTCAGTGTCTCCGTGCAGGGCATCATCATCTA 560

ANT1m TAGAGTTGCCTACTTCGGAGTCTATGATACTGCCAAGGGATGCTTCCCTGACCCCAAGAACTGCACATTTTGTGAGCT 637  
 ANT2m CCGAGCCGCCTACTTCGGTATCTATGACTGCAAGGGAATGCTTCCGGATCCCAAGAACAATCACATCGTCATCAGCT 640  
 ANT3m CCGGGCCGCCTACTTCGGCTGTACGATACTGCCAAGGGATGCTCCCGACCCCAAGAACACGCACATCGTGTGAGCT 640

ANT1m GGATGATTTGCCAGAGTGTGACGGCAGTCCAGGGCTGTGTCTACCCCTTTGACACTGTTCCGTAGTAATGATGATG 717  
 ANT2m GGATGATCGACAGACTGTCACTGCTGTGCGCGGTGACTTCTATCCATTTGACACTGTTCCCGCCGCATGATGATG 720  
 ANT3m GGATGATCGGCAGACGTGACGGCGTGCGCGCGTGTGTCTACCCCTTGACACGTGCGCGCGCATGATGATG 720

ANT1m CAGTCCGGCCGAAAGGGCGGATATTTATGTACACGGGCACAGTTGACTGCTGGAGGAAGATTGCAAAAGACGAAGGAG 797  
 ANT2m CAGTCAAGGGCGAAAGGAATCTGACATCATGTACACAGGCACGTTGACTGCTGGGGAAGATTGTCGTTGATGAAGGAGG 800  
 ANT3m CAGTCCGGGCGAAAGGAGCTGACATCATGTACACGGGCACGTTGACTGTTGGAGGAAGATCTTCAGAGATGAGGGGG 800

ANT1m CAAGGCCTTCTTCAAAAGTGCTGGTCCAATGTCTGAGAGGCATGGGCGGTGCTTTTGTATTGGTGTGTATGATGAGA 877  
 ANT2m CAAAGCTTTTCAAGGGTGCAATGGTCCAATGTCTGAGAGGCATGGGCGGTGCTTTTGTGCTTGTCTGTATGATGAAA 880  
 ANT3m CAAGGCCTTCTTCAAGGGTGCTGGTCCAATGTCTGAGAGGCATGGGCGGTGCTTTTGTGCTTGTATGATGATGAAA 880

ANT1m TCAAAATATGTCTAA 894  
 ANT2m TCAAGAAGTACATAA 897  
 ANT3m TCAAGAAGTGATCTAA 897

*Fig. 1B*

HANT1p MGDPAISFLKDFLAGVAAAVSKTAVAPIERVKLLLVQHASKQISAEKQ 50  
 HANT2p MTDAAVSFAKDFLAGGVAAAIKTAVAPIERVKLLLVQHASKQITADKQ 50  
 HANT3p MTECAISFAKDFLAGGIAAAISKTAVAPIERVKLLLVQHASKQITADKQ 50

HANT1p YKGI IDCVRIPKEQGLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100  
 HANT2p YKGI IDCVRIPKEQEVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100  
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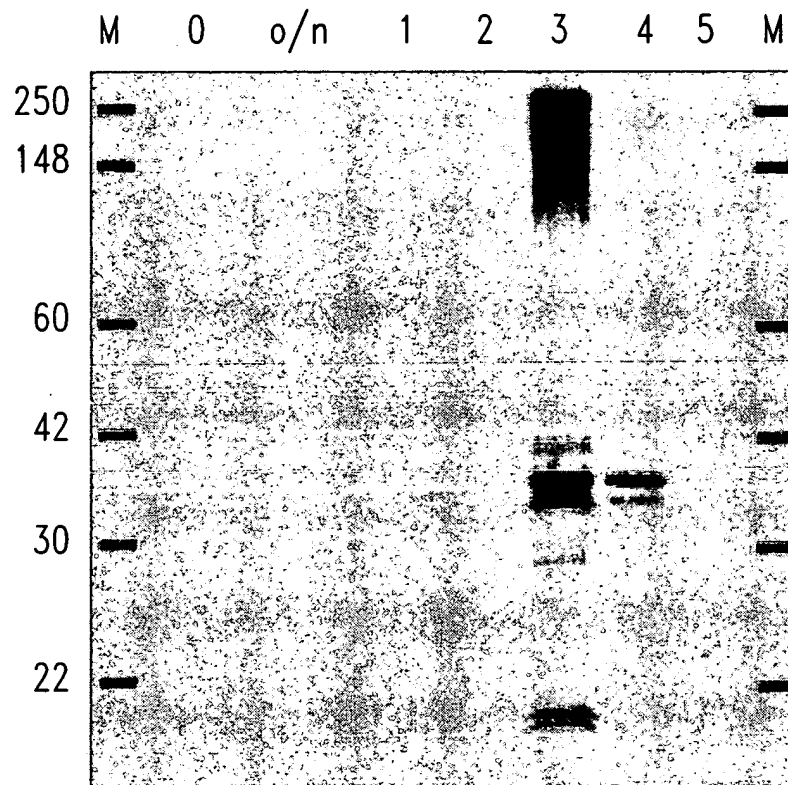
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HANT1p EREFHGLGDOTIKIFKSDGIRGLYQGFNVSVQGI IYRAAYFGVYDTAGK 199  
 HANT2p EREFRGLGDLVKIYKSDGIRGLYQGFNVSVQGI IYRAAYFGVYDTAGK 200  
 HANT3p EREFRGLGDLVKIYKSDGIRGLYQGFNVSVQGI IYRAAYFGVYDTAGK 200

HANT1p MLPDPKNHIVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 249  
 HANT2p MLPDPKNHIVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 250  
 HANT3p MLPDPKNHIVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 250

HANT1p YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV 298  
 HANT2p YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYT 299  
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*Fig. 2*

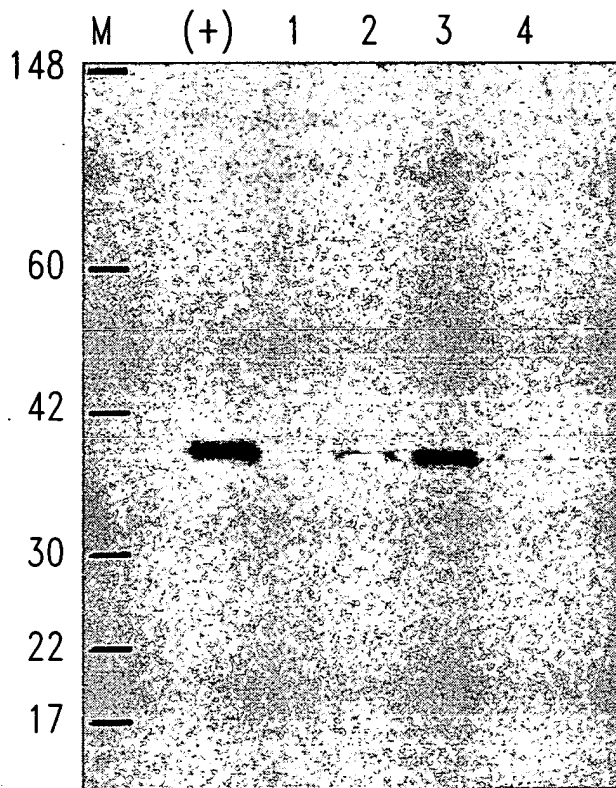


*Fig. 3*

Title: PRODUCTION OF ADENINUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT L AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725065 US

Inventors: Christen M. Anderson et al. Serial No. 09/809,827 Docket No. 660088.420D6



*Fig. 4*

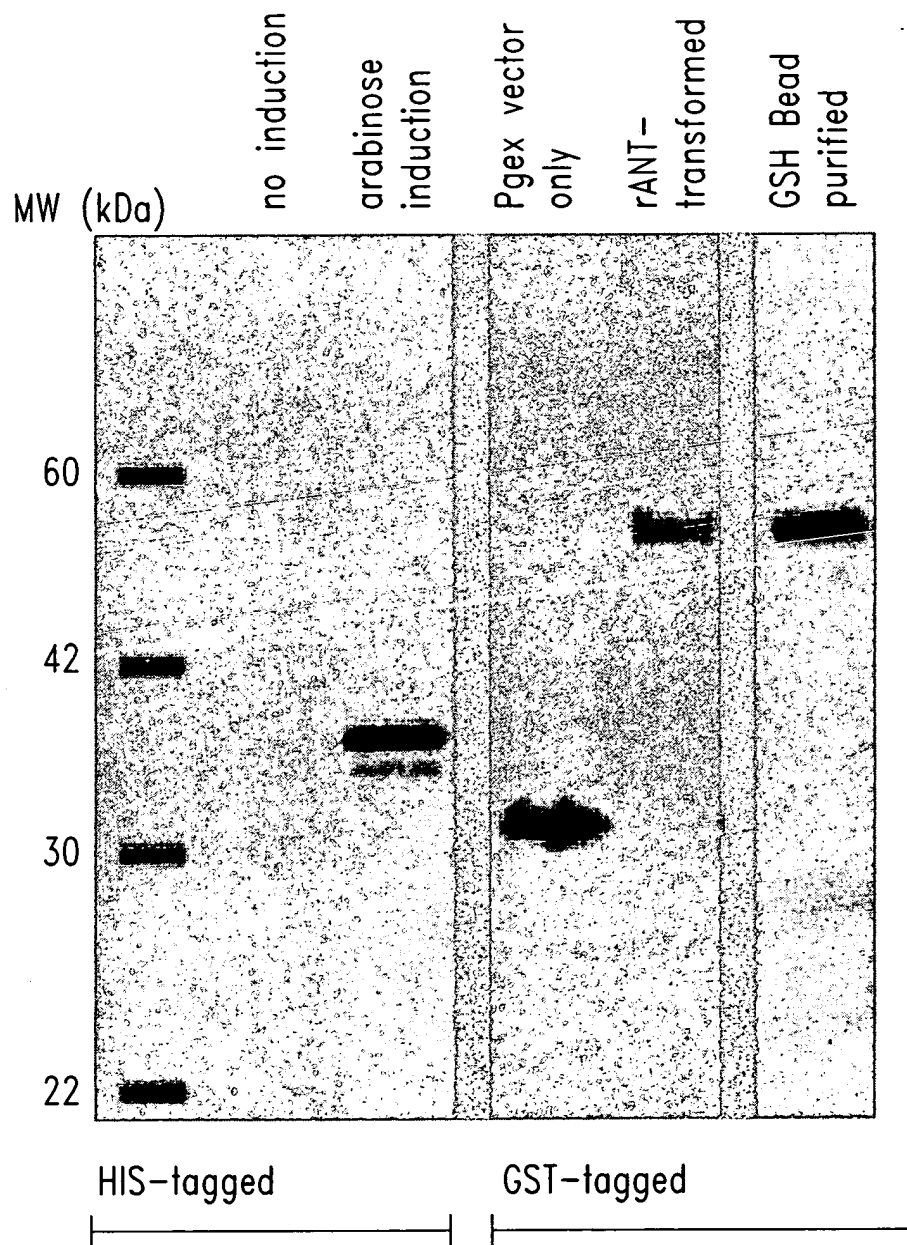
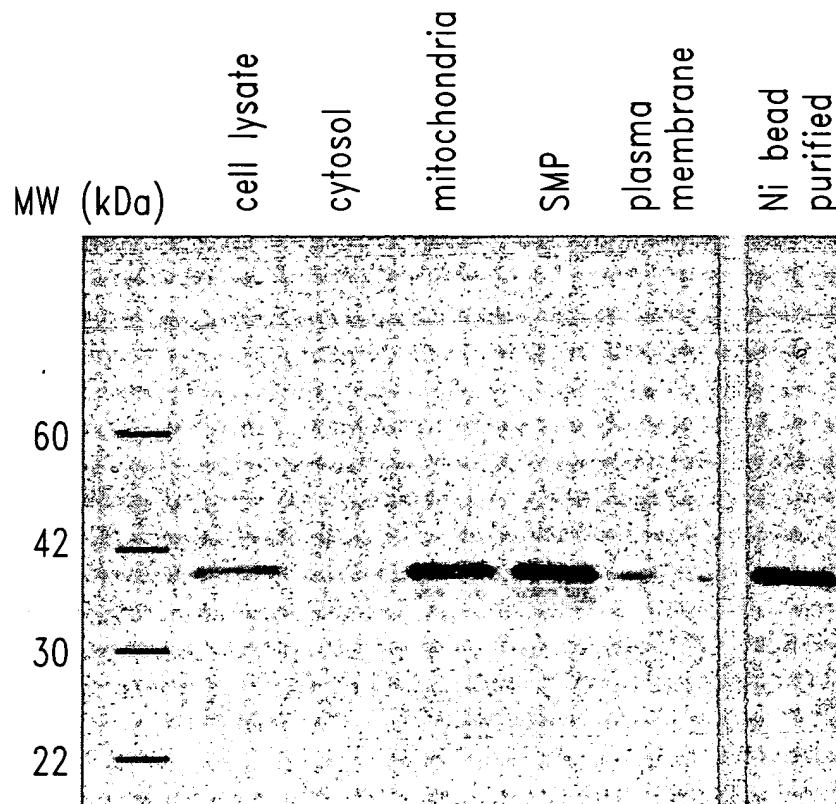


Fig. 5



*Fig. 6*

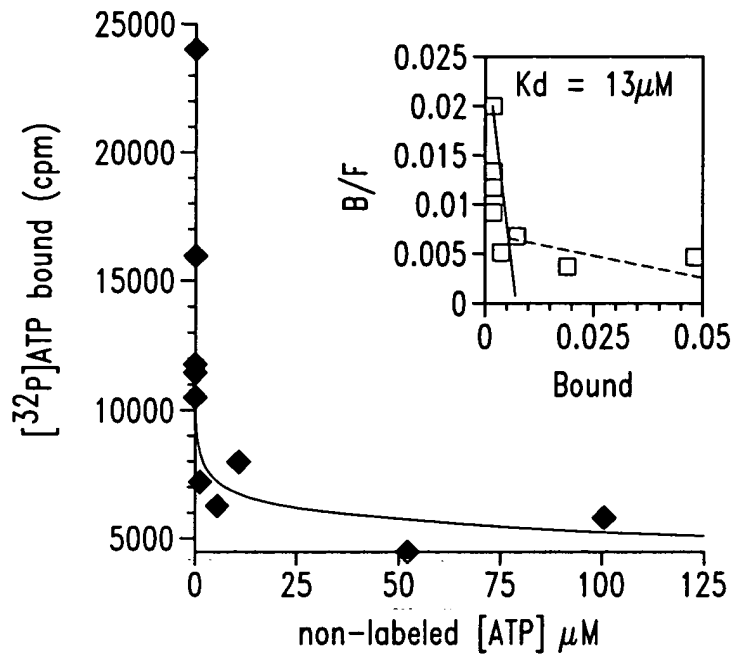


Fig. 7

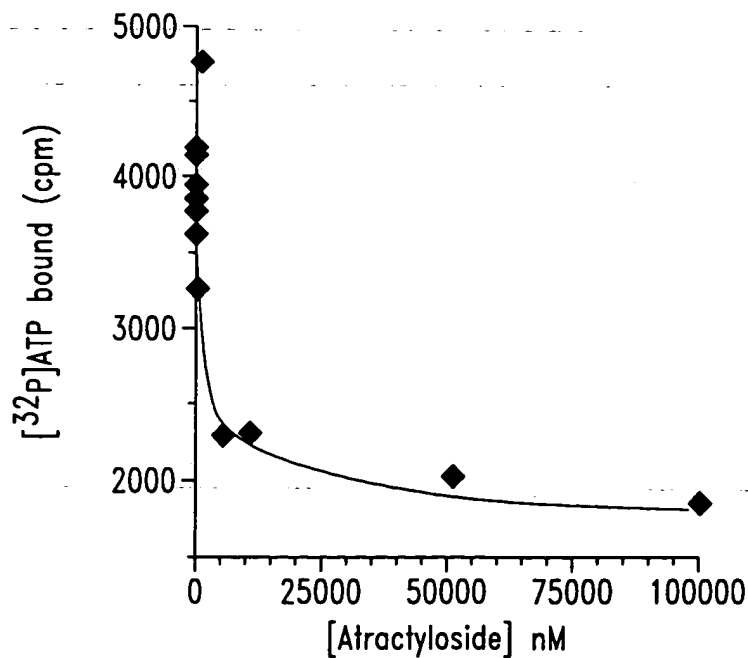


Fig. 8



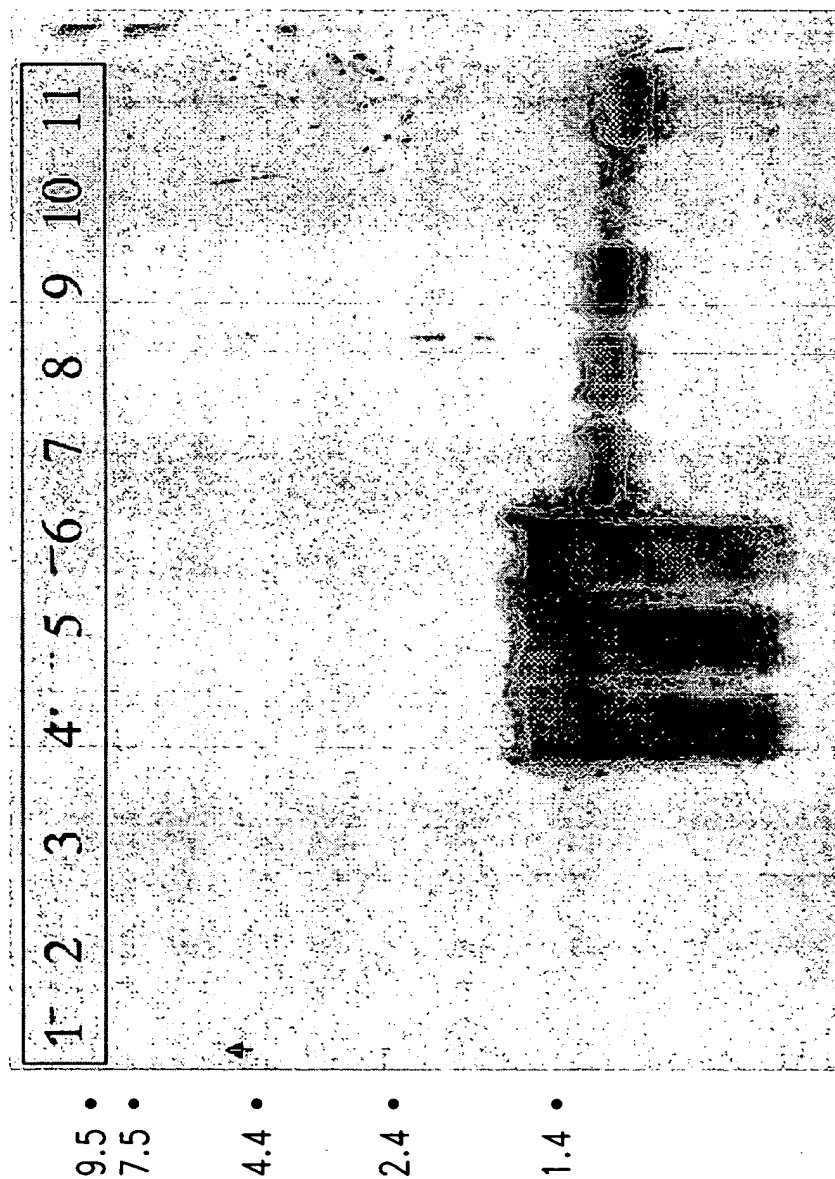
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AND SCREENING ASSAYS THEREFOR

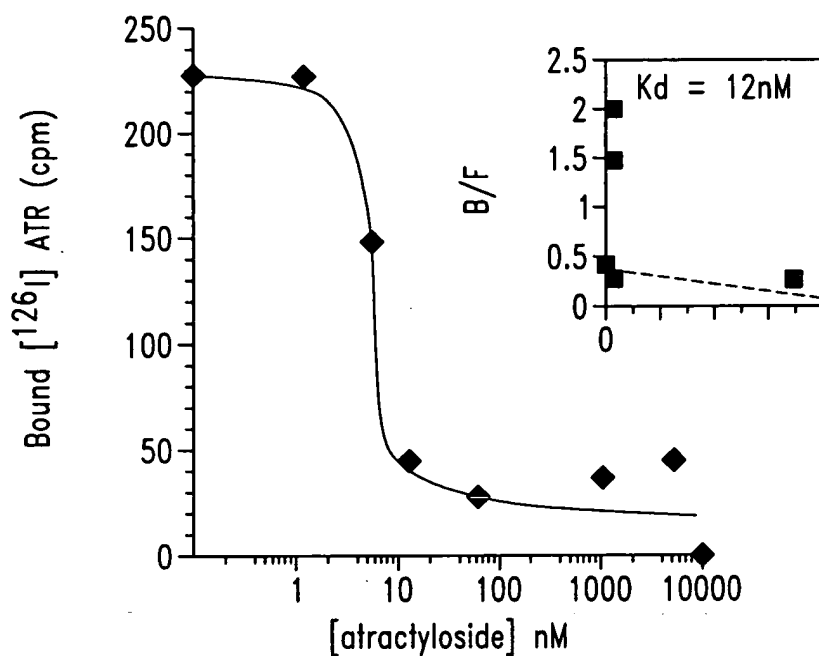
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Inventors: Christen M. Anderson et al. Serial No. 09/809,827

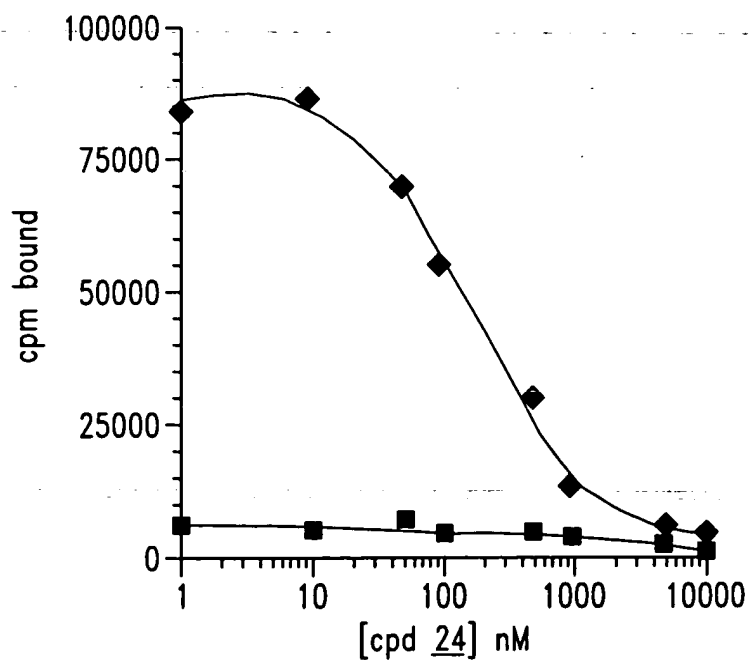
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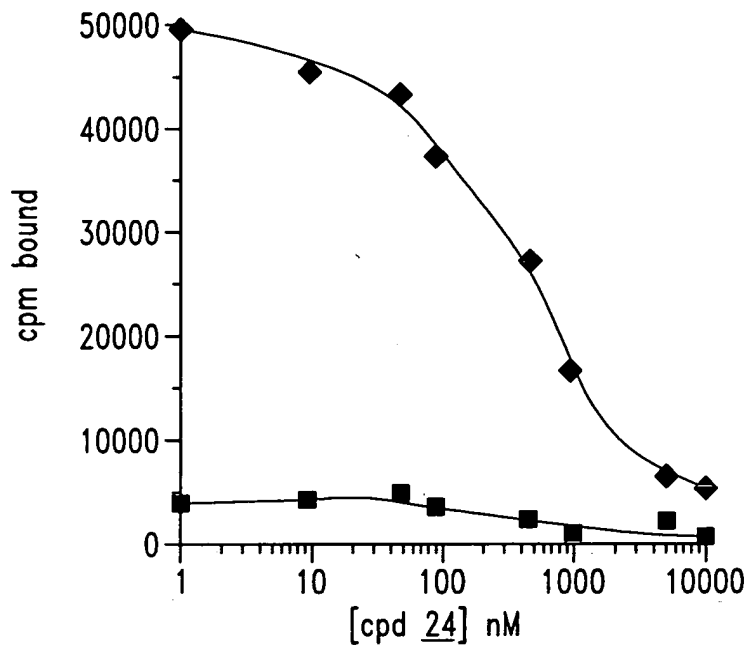
*Fig. 10*



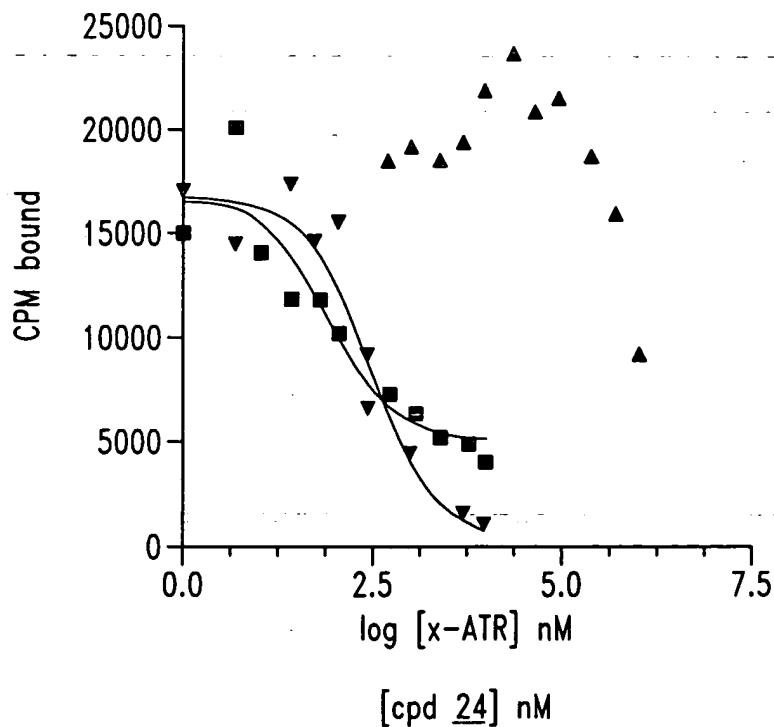
*Fig. 9*



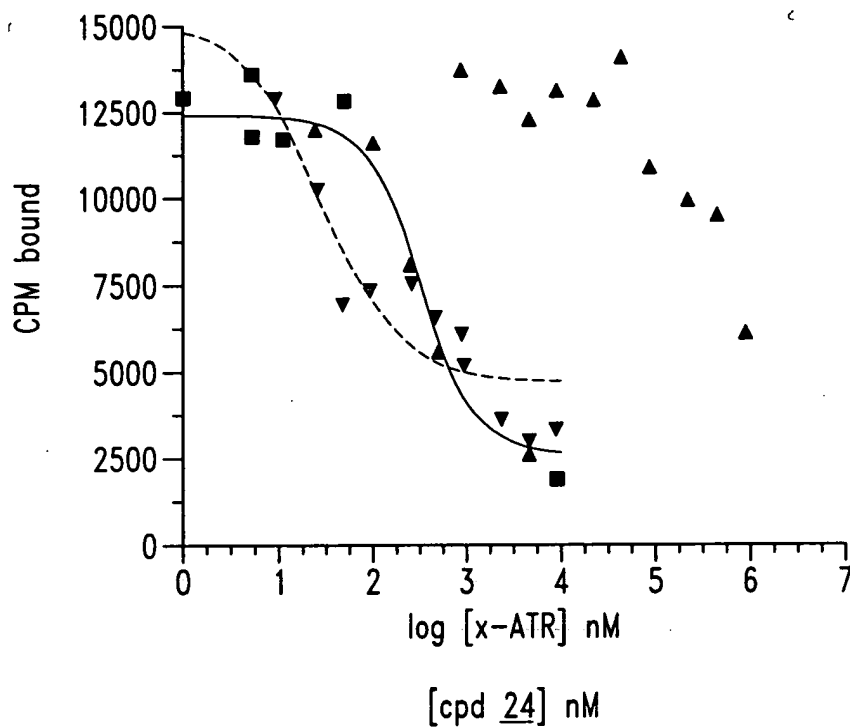
*Fig. 11*



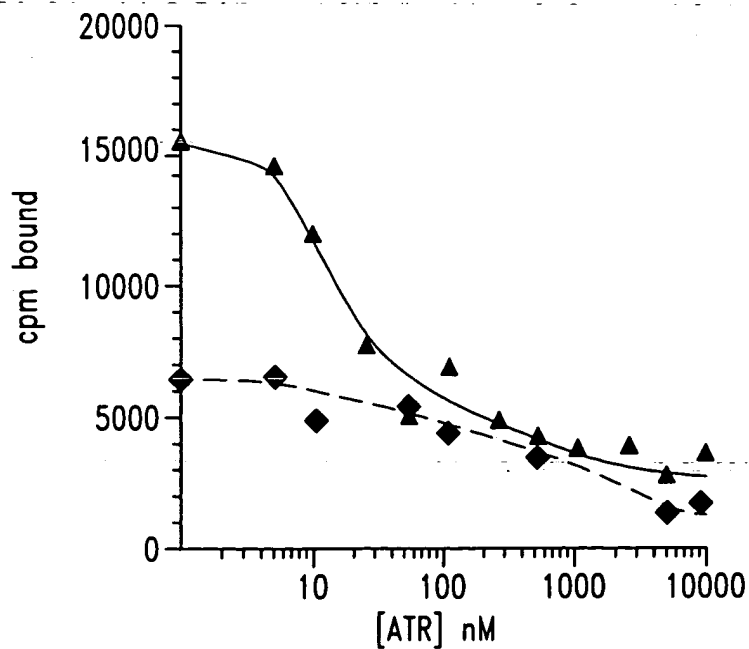
*Fig. 12*



*Fig. 13*



*Fig. 14*



*Fig. 15*

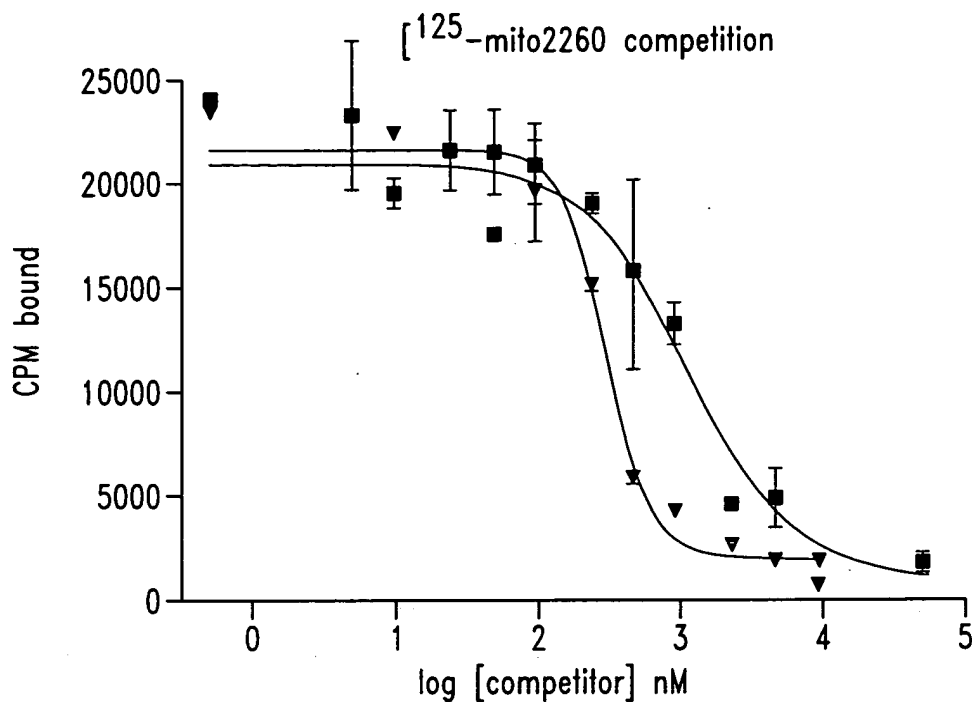


Fig. 16

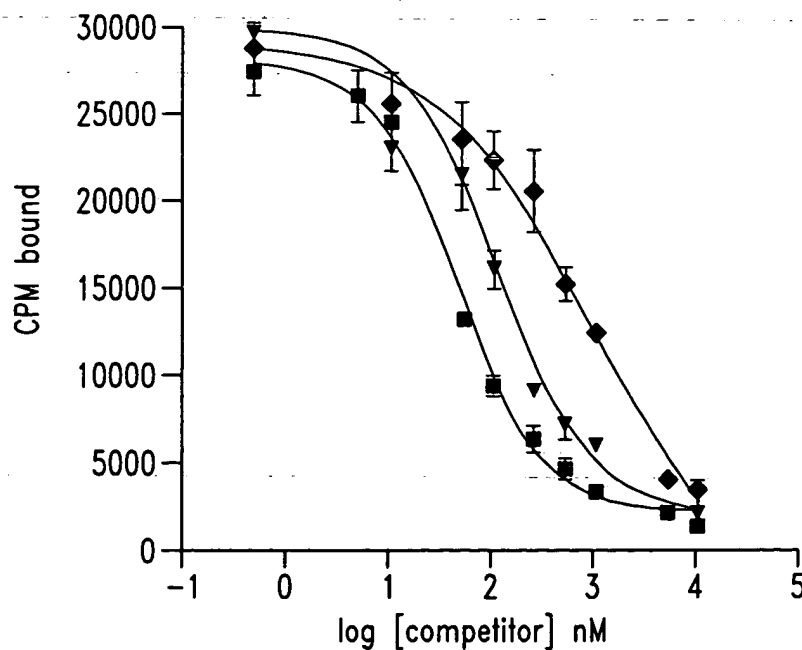
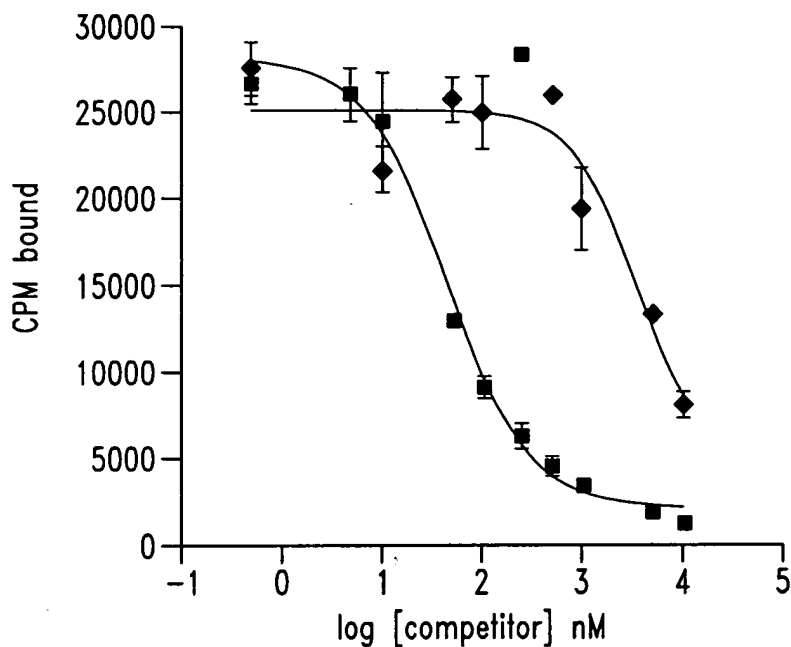
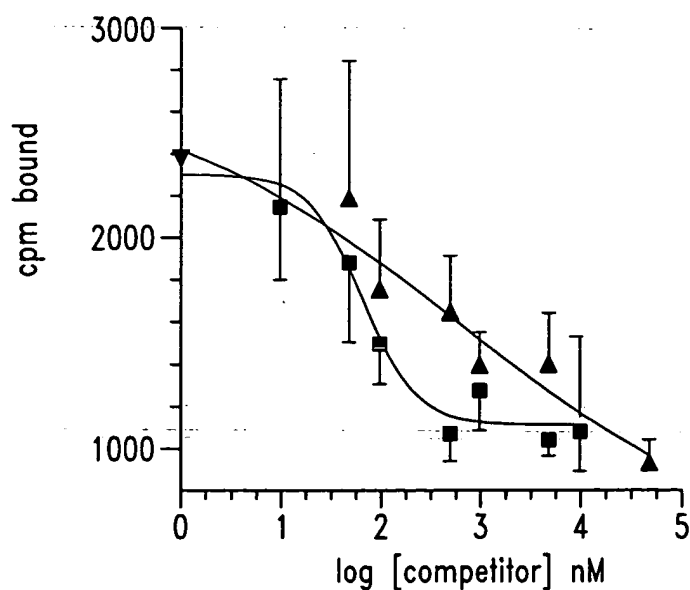


Fig. 17



*Fig. 18*



*Fig. 19*